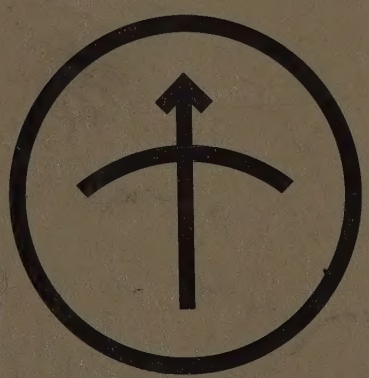
MODEL 760
STANDARD FREQUENCY METER

Operating
INSTRUCTIONS



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MP MASTER
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MEASUREMENTS
A McGRAW-EDISON DIVISION
BOONTON NEW JERSEY

MODEL 760
STANDARD FREQUENCY METER

Ogden

Operating INSTRUCTIONS

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MEASUREMENTS
A McGRAW-EDISON DIVISION
BOONTON NEW JERSEY

MOTEL SALTED
STANDARD TECHNICIAN METER

Operating
INSTRUCTIONS

MEASUREMENTS

MODEL 760 STANDARD FREQUENCY METER

CHANGE NOTICE

Effective with Model 760, serial #795.

1. Circuit changes have been incorporated which have increased input sensitivity approximately 2:1, (included in schematics: D-7301-H, D-7302-D and D-7303-E).

2. Frequency ranges have been expanded as follows:

25 to 50 mcs.	changed	to	23 to 50 mcs.
150 to 175 "	"	"	148 to 175 "
450 to 475 "	"	"	448 to 475 "

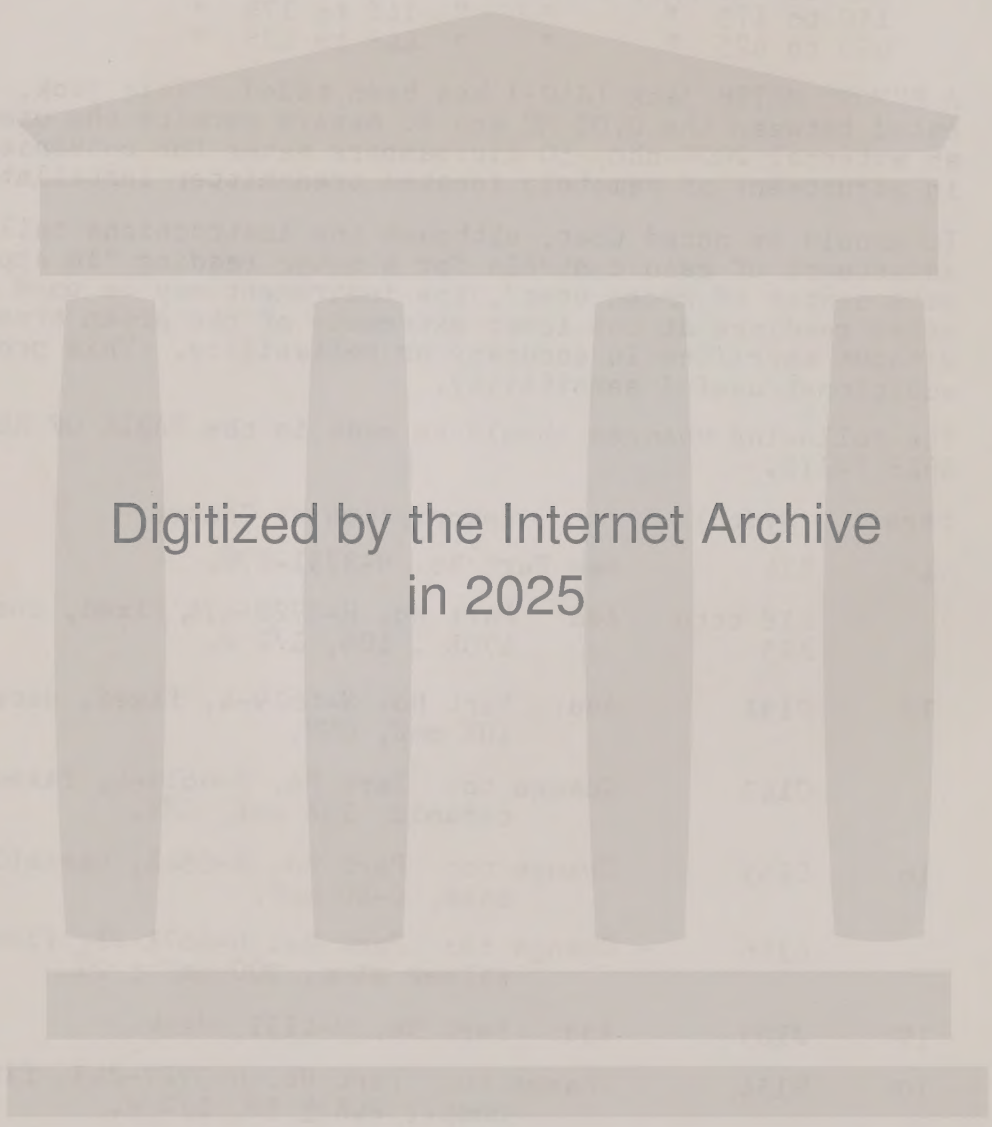
3. A REMOTE METER jack (J103) has been added. This jack, located between the 0.01 MC and KC meters permits the use of an external 2000-ohm, 50 microampere meter for convenience in adjustment of remotely located transmitter installations.

4. It should be noted that, although the instructions call for adjustment of gain controls for a meter reading "in approximate center of green area", the instrument may be used with meter readings at the lower extremety of the green area without sacrifice in accuracy or reliability. This provides additional useful sensitivity.

5. The following changes should be made in the TABLE OF REPLACEABLE PARTS.

Page	Symbol	Description of Change
13	R14	New Part No. H-3731-270.
	R18 thru R23	Add: Part No. H-3728-474, fixed, comp.; 470K ± 10%, 1/2 W.
15	C131	Add: Part No. H-6619-4, fixed, ceramic; 10K mmf, GMV.
	C143	Change to: Part No. H-6619-4, fixed, ceramic; 10K mmf, GMV.
16	C165	Change to: Part No. H-6622, variable, mica, 4-40 mmf.
	C166	Change to: Part No. H-6671-21, fixed, silver mica, 300 mmf ± 2%.
17	J103	Add: Part No. H-4131, Jack.
19	R154	Change to: Part No. H-3727-243, fixed, comp.; 24K ± 5%, 1/2 W.
	R162	Change to: Part No. H-3728-392, fixed, comp.; 3.9K ± 10%, 1/2 W.
20	R186	Add: Part No. H-3727-242, fixed, comp.; 2.4K ± 5%, 1/2 W.
30	C331 and C332	Change to: Part No. H-6622, variable, mica, 4-40 mmf.
21	W109	Add: Part No. H-6755-10, Cable, AF.

5/28/62



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SCHEMATIC DIAGRAMS

RF and Mixer Circuits.....
Xtal Oscillator and Divider Circuits..
Power Supply and Harmonic Generators..

Figure 1. Model 760 Standard Frequency Meter

INSTRUCTION BOOK
MODEL 760
STANDARD FREQUENCY METER

CHAPTER I
INTRODUCTION
SECTION I
GENERAL

1. SCOPE OF MANUAL

a. This manual describes basic instructions for using the Model 760 Standard Frequency Meter.

2. DESCRIPTION

a. The Model 760 Standard Frequency Meter is designed to precisely measure the frequency of radio signals within the ranges of 25 to 50, 150 to 175 and 450 to 475 megacycles. When the reference crystal is zeroed against a frequency standard such as WWV, the frequency of an incoming signal can be measured to within ± 100 cycles.

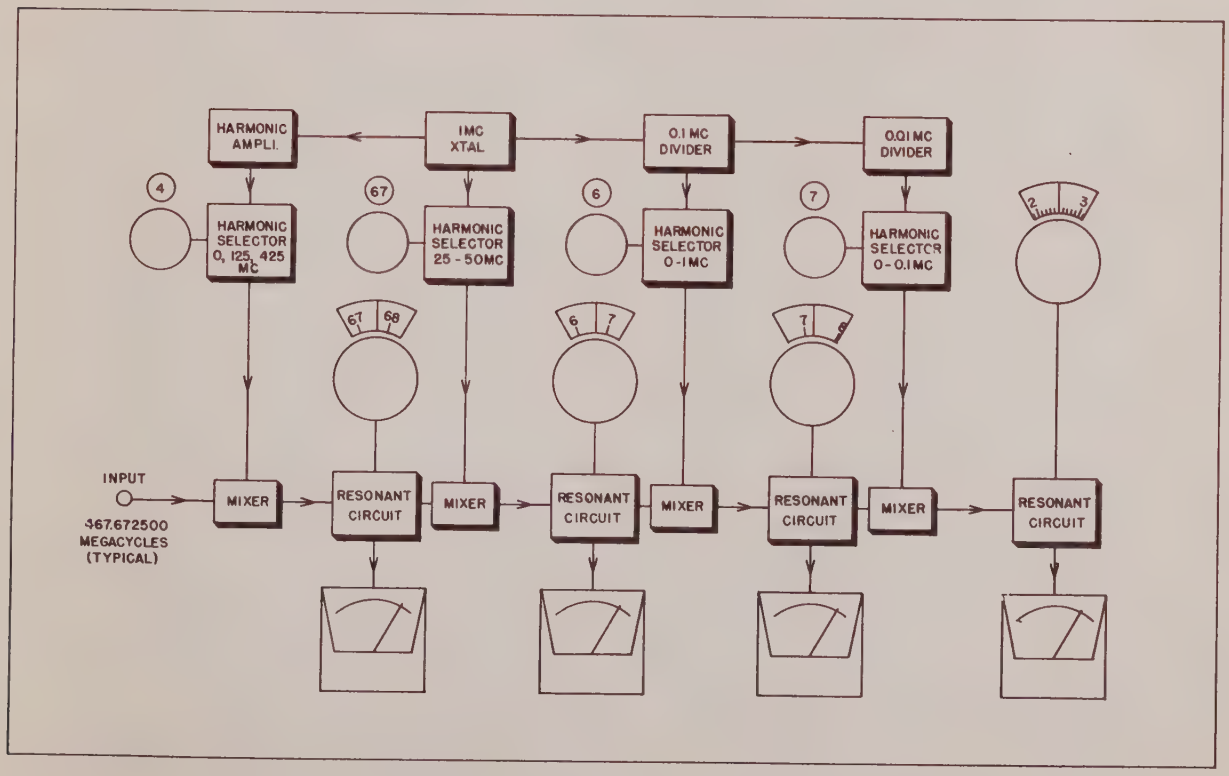


Figure 2. Model 760 Simplified Block Diagram.

CHAPTER II

OPERATING INSTRUCTIONS

SECTION I

OPERATING CONTROLS

3. INPUT

a. This BNC connector located at the lower left corner of the front panel, provides an approximate 50 ohm termination for the incoming test signal.

4. GAIN

a. Four GAIN controls, located along the lower edge of the front panel, adjust the signal level in each of the tuning circuits as indicated on the associated signal meters.

5. TUNING CONTROLS

a. A range selector switch, located in the upper left corner of the dial cover is used to select the appropriate input range. The selector dial indicates the 1st significant (100 MC) digit, i.e., for a signal in the 25 to 50 MC range, the range selector dial reads "0" (100 MC); in the 150 to 175 MC range, the range selector dial reads "1" (100 MC); in the 450 to 475 MC range, the range selector dial reads "4" (100 MC).

b. Four tuning controls are located near the lower edge of the dial cover, see figure 1. Reading left to right these tune:

(1) The second two significant digits of the incoming signal, i.e. 25 through 50, 50 through 75 megacycles. Resonance is indicated by the 1 MC meter at top of panel.

(2) The significant 0.1 megacycle digit, resonance indicated by the 0.1 MC meter.

(3) The significant 0.01 megacycle digit, resonance indicated by the 0.01 MC meter.

(4) The significant 1 kilocycle digit, resonance indicated by the KC meter. This reading may be interpolated to 2 additional significant places.

6. HARMONIC SELECTORS

a. Three selectors are mounted directly above their associated tuning controls. These dials are set to correspond to digits determined by settings of the tuning controls. The harmonic selector dial readings are used to make a direct readout of the measured frequency.

SECTION II

CALIBRATION CONTROLS

7. CALIBRATION SWITCH

a. This switch, located in the upper right corner of the front panel, checks the zero and 10 KC calibration points of the "KC" dial as indicated by a peak reading on the "KC" meter. This check also indicates proper operation of the frequency divider circuits.

8. 1 MC ADJ

a. This control, adjusted through a rear access hole at the back of the case permits zeroing the internal crystal oscillator against WWV. Refer to paragraph 15 for detailed instructions.

SECTION III

OPERATION

9. INSTALLATION

a. The Model 760 Frequency Meter is portable and self-contained. It should be operated in a clear area to provide ample ventilation. The unit should never be operated with its transit

cover on or its blower grill obstructed.

10. PRELIMINARY OPERATIONAL PROCEDURE

a. Connect the Model 760 Frequency Meter power supply cord to 115 volt, 50/60 cycle source. Place POWER switch in POWER position and allow ten minutes for circuits to stabilize.

b. CALIBRATION CHECK: Depress CAL switch and check for peak on KC meter at the zero and 10 KC points of the KC tuning dial.

11. OPERATION

a. Apply the signal to be measured to INPUT connector. This signal should have a magnitude of approx. 500,000 microvolts and a frequency within the three ranges of the Frequency Meter. Switch "100 MC" dial to the proper range: 25 to 50 MC, 150 to 175 MC, or 450 to 475 MC. Note that the dial will read the 1st significant digit: 0, 1, 4 (100 MC).

CAUTION

INPUT VOLTAGE SHOULD NOT EXCEED 5 VOLTS RMS TO AVOID DAMAGING INPUT TERMINATION.

b. Tune 1 MC tuning control for maximum reading on 1 MC meter and adjust input GAIN control to bring meter pointer to approximate center of green area. Note frequency to left of fiducial line then rotate 1 MC harmonic selector to bring this frequency to center of viewing window. See paragraph 12 for further information.

c. Tune 0.1 MC tuning control for peak reading on 0.1 MC meter. Adjust 0.1 MC GAIN control to bring meter pointer to approximate center of green area. Note frequency to left of fiducial line then rotate 0.1 MC harmonic selector to bring this frequency to center of viewing window.

d. Tune 0.01 MC tuning control for maximum reading on 0.01 MC meter. Adjust 0.01 MC GAIN control to bring meter pointer to approximate center of green area. Note frequency to left of fiducial line then rotate 0.01 MC harmonic selector to bring this frequency to center of viewing window.

e. Carefully tune KC tuning control for maximum reading on KC meter.

f. When the foregoing procedures have been completed the first five digits of signal frequency will be indicated directly by settings of the range selector switch and the harmonic selectors, while the remaining digits will be indicated by the KC dial..

12. HARMONIC SELECTION

a. Whenever the setting of a tuning selector is such that the correct harmonic is not clearly indicated, (i.e. fiducial falls on radial division of dial) tuning the following circuit will provide the correct answer. For example, consider the frequency 30, 986, 174 cycles. Since this is very close to 31 megacycles the fiducial of the first tuning dial will be very close to the 31 calibration. If the 1-MC harmonic selector is set at 31, it will be noted that maximum reading of the 100-KC meter will be obtained with the 100-KC tuning dial below zero, thus indicating that the frequency is less than 31.0 megacycles. Selecting the 30th harmonic will result in a maximum reading of the 100 KC meter occurring within the segment marked 9 on the 0.1 MC dial.

b. 0.1 MC and 0.01 MC harmonics may be identified in a similar manner. Incorrectly selecting the higher harmonic will result in the following dial producing resonance at a setting less than zero or greater than ten.

CAUTION

Always be sure harmonic settings agree with the tuning dials. If a harmonic five numbers above the correct harmonic is selected, an incorrect readout will result.

13. EXTERNAL COUNTER

a. The OUTPUT pin jack on the rear access panel provides means for using an electronic counter to display the last four digits of signal frequency. Since the KC circuit of the Model 760 is designed to operate on frequencies between 20 KC and 30 KC (20 KC, equivalent to zero and 30 KC equivalent to 10,000 on dial), the external counter will display frequencies within this range. Only the last four digits will be significant as applied to the frequency being measured; the 0.01 MC digit will be established by the harmonic selector.

14. COMPARISON WITH WWV

a. When optimum accurancy is required the crystal in the Model 760 may be zeroed against primary standard WWV using the arrangement shown in figure 3.

When using this arrangement coupling capacitance C should be sufficiently small to avoid loading of the input circuit of the receiver.

b. Adjust 1 MC-ADJ control, see figure 2, to produce zero beat in the headphones. When checking against a 5-MC carrier of WWV, the actual error is 1/5 the frequency of the beat heard in the headphones.

CHAPTER III

OPERATIVE MAINTENANCE

SECTION I

TEST POINTS

15. GENERAL

a. Test points. (low impendance) are available for checking operation of crystal and multivibrator circuits. Pin jacks have been provided to permit access to these circuits to observe waveform.

b. Pin jacks for observing crystal oscillator and multivibrator operation are located at the rear of the instrument, see figure 2. Adjacent to each multivibrator pin jack is a potentiometer for adjustment of the associated multivibrator.

c. When adjusting multivibrators, an oscilloscope capable of displaying a 1 megacycle wave, with sweep speeds up to 10 microseconds full scale should be available.

d. Cathode-follower isolation is provided for all test points permitting observation of wave form without loading of critical circuits.

16. OSCILLOSCOPE CALIBRATION AND MULTIVIBRATOR ADJUSTMENT

a. The sweep circuit of the oscilloscope must be accurately adjusted in order to obtain the patterns shown in figure 4. This necessitates calibrating the sweep against a known time reference which, in this case, is the 1 megacycle crystal in the Model 760.

b. Connect oscilloscope to 1 MC OUT jack and adjust sweep until exactly 10 cycles are displayed between full-scale graticule lines on the screen. This assures that the sweep is set for exactly 10 microseconds.

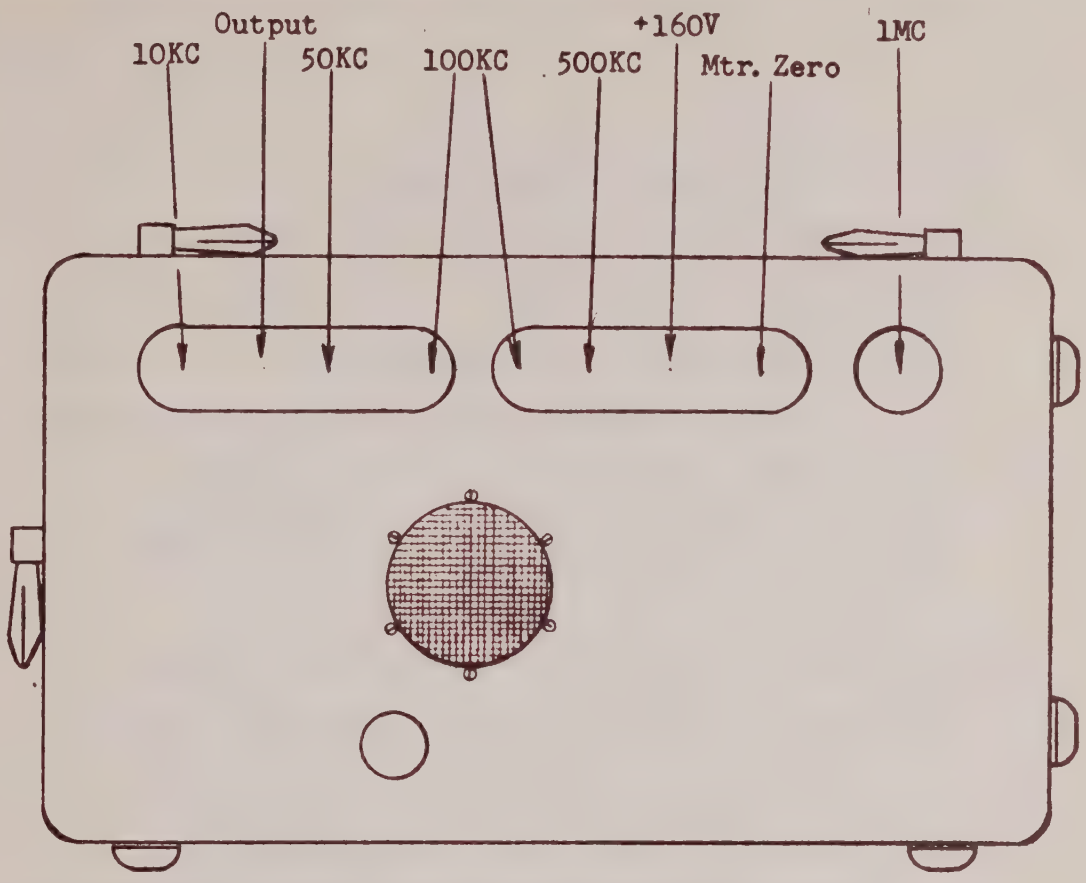


Figure 3. Model 760 Standard Frequency Meter. Rear view showing test points and adjustment controls.

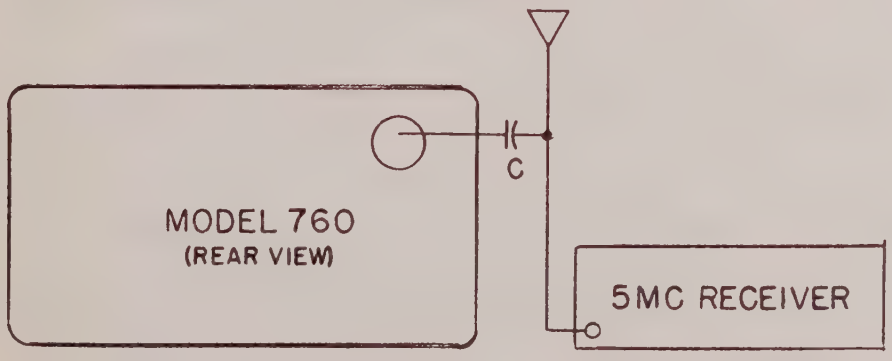


Figure 4. Calibration of Model 760 against WWV.

(1) Having adjusted the sweep for exactly 10 microseconds, transfer oscilloscope probe to 500 KC test jack. If 500 KC multivibrator is properly adjusted, exactly five cycles will be displayed between graticule lines.

NOTE

Adjust each multivibrator potentiometer until the multivibrator "snaps" into lock. This will be evidenced by the correct number of cycles appearing on the scope trace. Rotate potentiometer both directions, noting approximately where the multivibrator falls out of lock (a pronounced shift in frequency). Readjust potentiometer to the approximate center of the locking range.

(2) Transfer probe to 100 KC test jack. If 100 KC multivibrator is properly adjusted, 1 full cycle will be displayed between full scale graticule lines.

c. With probe still attached to 100 KC test jack, switch the oscilloscope to its 100-microsecond sweep range.

(1) Adjust sweep until exactly 10 cycles of 100 KC signal are displayed between full-scale graticule lines. This assures the sweep if set for exactly 100 microseconds.

(2) Transfer probe to 50 KC test jack. If the 50 KC multivibrator is properly adjusted, 5 full cycles will be displayed between full scale graticule lines.

(3) Transferring probe to 10 KC test jack will produce one full cycle if multivibrator is properly locked.

17. CRYSTAL OSCILLATOR

a. To check operation of the crystal oscillator connect the oscilloscope to pin jack marked 1 MC OUT. The approximate waveform at this point is shown in figure 4 a.

18. POWER SUPPLY

a. The Model 760 self-contained power supply furnishes heater voltage as well as positive and negative d-c potentials required by the frequency meter circuits.

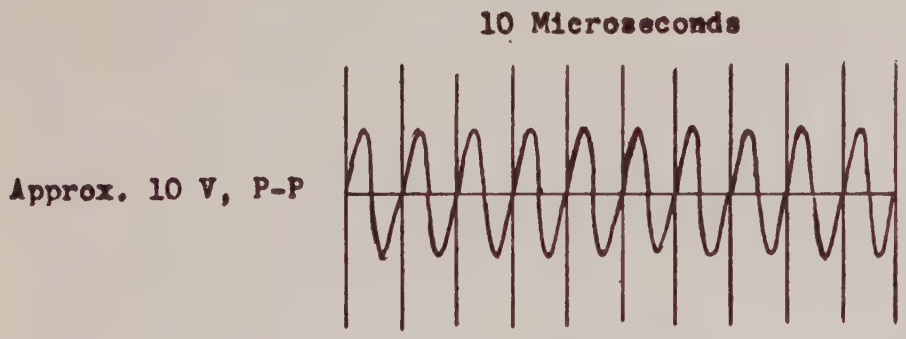
b. Three d-c potentials, + 250, + 160 and - 105 are supplied to the frequency meter. The + 160 and - 105 are electronically regulated while the + 250 is unregulated.

19. CONTROLS AND ADJUSTMENTS

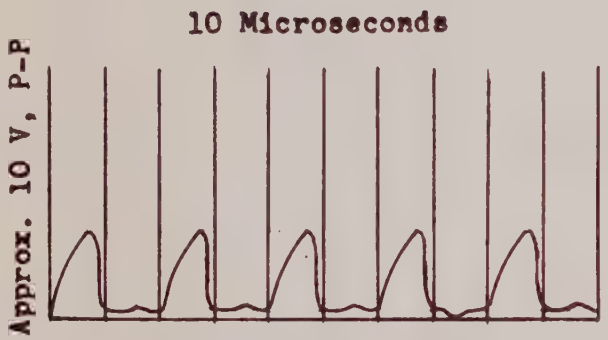
a. The POWER switch, located on the lower right corner of the front panel, controls application of line voltage to the primary of the transformer.

b. The +160 V ADJUST located internally on the power supply permits compensating for voltage changes resulting from replacement of tubes in the regulator circuit.

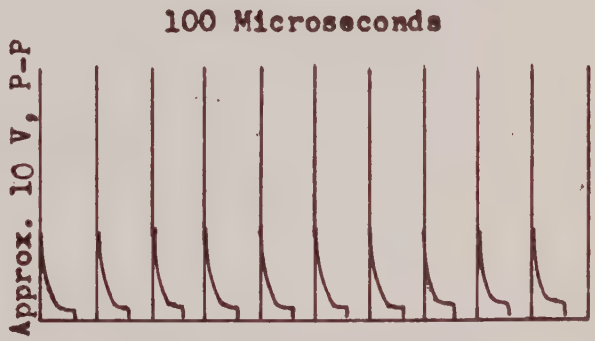
c. Fuses are provided for protection of the primary circuit and B^+ . The 3 amp SLO-BLO primary fuse is located on the front panel of the instrument. A 0.5 amp SLO-BLO "B^+ " fuse is located internally on a power supply fuse block.



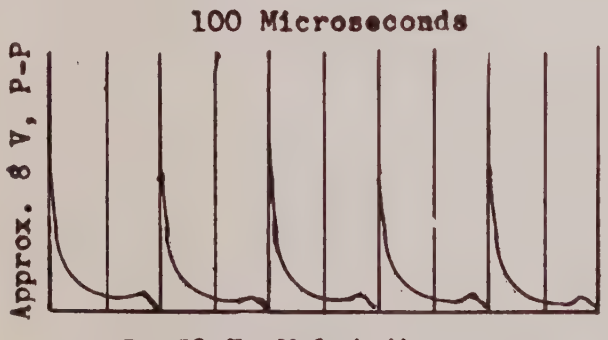
A. 1 MC Output



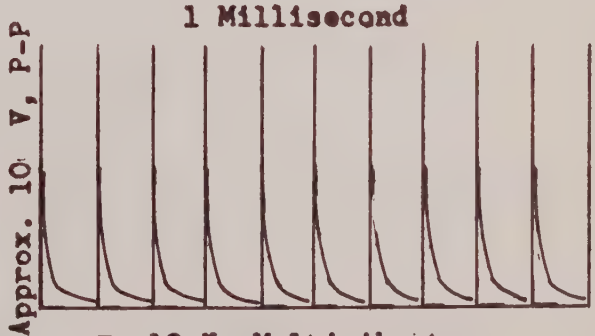
B. 500 Kc Multivibrator



C. 100 Kc Multivibrator



D. 50 Kc Multivibrator



E. 10 Kc Multivibrator

Figure 5. Test Patterns using Tektronix Type 541 Oscilloscope.

APPENDIX II

TABLE OF REPLACEABLE PARTS

Model 760 Standard Frequency Meter - Power Unit (Ref. D-7303)

Symbol	Part No.	Description
B1	H-6387	Motor with fan blade.
		Capacitors
C1	H-6619-4	Fixed, ceramic; 10 K mmf, GMV.
C2	H-6619-4	" " 10 K " "
C3	H-6672	" electrolytic; 20-40-40 mf, 450 V.
C4	H-5589	" paper; .1 mf ± 20%, 400 V.
C5	H-6610	" electrolytic; 40 mf, 450 V.
C6	H-6610	" " 40 mf, 450 V.
CR1	H-6677	Rectifier, silicon.
CR2	H-6677	" "
CR3	H-6677	" "
CR4	H-6677	" "
CR5	H-6677	" "
CR6	H-6677	" "
CR7	H-6678	" "
E1		Tube, glow; type OB2
F1	H-5018-15	Fuse, cartridge; 3A, slo-blo.
F2	H-5018-6	" " 0.5A " "
R1	H-6364	Fixed, wire; 400 ohms, 20 W.
R2	H-6364	" " 400 " "
R3	H-3728-471	" comp; 470 ± 10%, 1/2 W.
R4	H-3728-330	" " 33 ± 10%, 1/2 W.
R5	H-3728-330	" " 33 ± 10%, 1/2 W.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
R6	H-3728-330	Fixed, comp; 470 ±10%, 1/2 W.
R7	H-3728-224	" " 220 K 10%, 1/2 W.
R8	H-3728-104	" " 100 K 10%, 1/2 W.
R9	H-3727-115	" " 1.1 M 5%, 1/2 W.
R10	H-3727-305	" " 3 M 5%, 1/2 W.
R11	H-3728-473	" " 47 K 10%, 1/2 W.
R12	H-6679-2	Variable, comp; 25 K
R13	H-3728-103	Fixed, comp; 10 K ±10%, 1/2 W.
R14	H-3728-270	" " 27 10%, 1 W.
R15	H-5118	" wire; 1 K, 10 W.
R16	H-6684-1	" " 2 K, 10 W.
R17	H-3734-104	" comp; 100 K ±10%, 2 W.
S1	H-6653	Switch, toggle; SPST.
T1	H-7304	Transformer, power
V1		Tube, electron; Type 6080.
V2		" " " 12AT7.
W1	H-7402	Cord, power; 2 wire with connectors.

Model 760 Standard Frequency Meter

Harmonic Generator Circuit (Ref. D-7303)

Symbol	Part No.	Description			
		Capacitors			
C301	H-6619-4	Fixed, ceramic;	10 K	mmf,	GMV
C302	H-6331	Variable, mica;	24-200	"	
C303	H-6621	" "	7-100	"	
C304	H-6671-16	Fixed, sil. mica;	470	"	± 10%.
C305					
C306	H-6619-4	" ceramic;	10 K	"	GMV.
C307	H-6619-4	" "	10 K	"	"
C308					
C309	H-6619-4	" "	10 K	"	"
C310	H-6621	Variable, mica;	7-100	"	
C311	H-6392	" "	2-25	"	
C312	H-6647	Fixed, ceramic;	1 K	"	"
C313	H-6619-4	" "	10 K	"	"
C314	H-6619-4	" "	10 K	"	"
C315					
C316	H-6619-4	" "	10 K	"	"
C317	H-6392	Variable, mica;	2-25	"	
C318	H-6392	" "	2-25	"	
C319	H-6671-11	Fixed, sil. mica;	100	"	± 5%
C320	H-6619-4	" ceramic	10 K	"	GMV.
C321	H-6619-4	" "	10 K	"	"
C322					
C323	H-6619-4	" "	10 K	"	"
C324	H-6392	Variable, mica;	2-25	"	
C325	H-6671-11	Fixed, sil. mica;	100	"	± 5%.
C326	H-6647	Fixed, ceramic;	1 K	"	GMV.

Model 760 Standard Frequency Meter

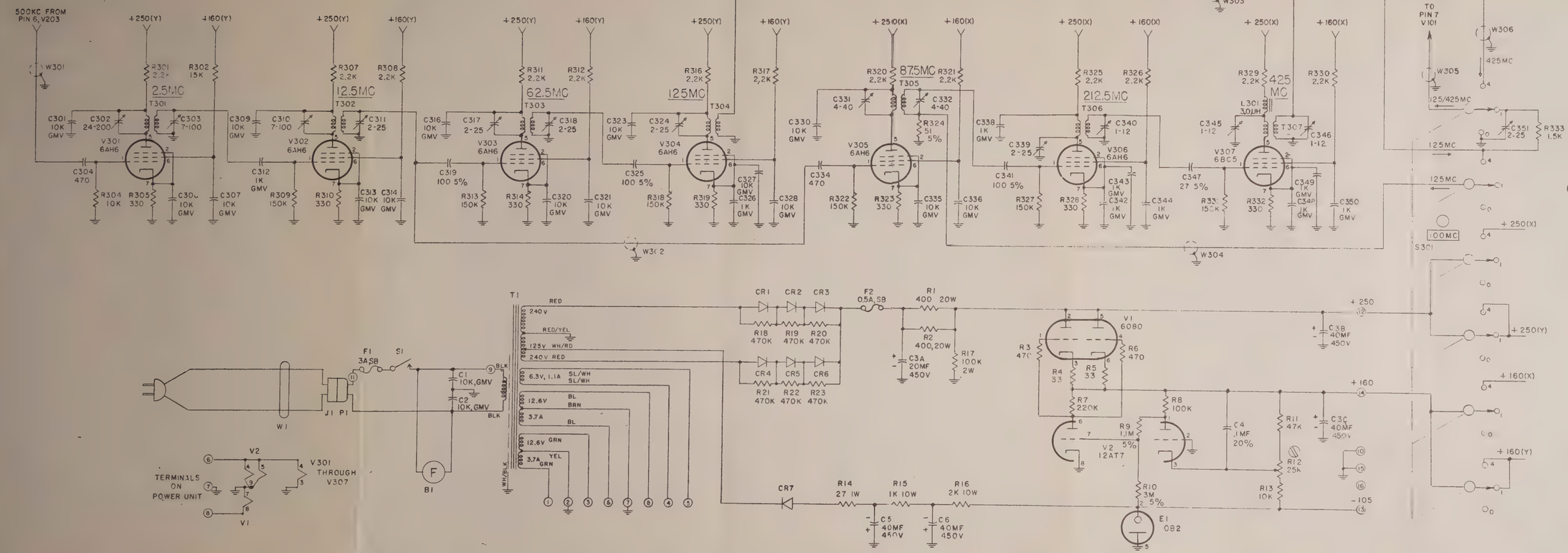
Symbol	Part No.	Description			
C327	H-6619-4	Fixed, ceramic;	10 K	mmf,	GMV.
C328	H-6619-4	" "	10 K	"	"
C329					
C330	H-6619-4	" "	10 K	"	"
C331	H-6392	Variable, mica;	~~2-25~~ 4-40	"	
C332	H-6392	" "	~~2-25~~ 4-40	"	
C333					
C334	H-6671-16	Fixed, sil. mica;	470	"	± 10%.
C335	H-6619-4	" ceramic;	10 K	"	GMV.
C336	H-6619-4	" "	10 K	"	"
C337					
C338	H-6647	" "	1 K	"	"
C339	H-6392	Variable, mica;	2-25	"	
C340	H-6643	" "	1-12	"	
C341	H-6671-11	Fixed, sil. mica;	100	"	± 5%.
C342	H-6647	" ceramic;	1 K	"	GMV.
C343	H-6647	" "	1 K	"	"
C344	H-6647	" "	1 K	"	"
C345	H-6643	Variable, mica;	1-12	"	
C346	H-6643	" "	1-12	"	
C347	H-6671-5	Fixed, sil. mica;	27	"	± 5%.
C348	H-6647	" ceramic;	1 K	"	GMV.
C349	H-6647	" "	1 K	"	"
C350	H-6647	" "	1 K	"	"
C351	H-6392	Variable, mica;	2-25	"	
L301		Coil, RF; 3.0 microhenries.			

Model 760 Standard Frequency Meter

Symbol	Part No.	Description		
		Resistors		
R301	H-3728-222	Fixed, comp;	2.2 K ohms	± 10%, 1/2 W.
R302	H-3728-153	" "	15 K "	10%, 1/2 W.
R303	H-3728-			
R304	H-3728-103	" "	10 K "	10%, 1/2 W.
R305	H-3728-331	" "	330 "	10%, 1/2 W.
R306				
R307	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R308	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R309	H-3728-154	" "	150 K "	10%, 1/2 W.
R310	H-3728-331	" "	330 "	10%, 1/2 W.
R311	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R312	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R313	H-3728-154	" "	150 K "	10%, 1/2 W.
R314	H-3728-331	" "	330 "	10%, 1/2 W.
R315				
R316	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R317	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R318	H-3728-154	" "	150 K "	10%, 1/2 W.
R319	H-3728-331	" "	330 "	10%, 1/2 W.
R320	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R321	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R322	H-3728-154	" "	150 K "	10%, 1/2 W.
R323	H-3728-331	" "	330 "	10%, 1/2 W.
R324	H-3727-510	" "	51 "	5%, 1/2 W.
R325	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R326	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R327	H-3728-154	" "	150 K "	10%, 1/2 W.
R328	H-3728-331	" "	330 "	10%, 1/2 W.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
R329	H-3728-222	Fixed, comp; 2.2 K ohms ± 10%, 1/2 W.
R330	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R331	H-3728-154	" " 150 K " 10%, 1/2 W.
R332	H-3728-331	" " 330 " 10%, 1/2 W.
R333	H-3728-152	" " 1.5 K " 10%, 1/2 W.
S301	H-7364	Switch, rotary; 6 poles, 3 positions.
T301	H-7375	Transformer, RF; 2.5 mcs.
T302	H-7377	" " 12.5 "
T303	H-7379	" " 62.5 "
T304	H-7398	" " 125.0 "
T305	H-7397	" " 87.5 "
T306	H-7385	" " 212.5 "
T307	H-7386	" " 425 "
V301		Tube, electron; Type 6AH6.
V302		6AH6.
V303		6AH6.
V304		6AH6.
V305		6AH6.
V306		6AH6.
V307		6BC5.
W301	H-7399-3	Cable, RF;
W302	H-7399-4	" "
W303	H-7403-1	" "
W304	H-7403-2	" "
W305	H-7403-3	" "
W306	H-7403-4	" "


500KC FROM PIN 6, V203
+250(Y)
+160(Y)
+250(X)
+160(X)
W301
W302
W303
W304
T301
T302
T303
T304
T305
T306
T307
2.5MC
12.5MC
62.5MC
125MC
87.5MC
212.5MC
425 MC
V301 6AH6
V302 6AH6
V303 6AH6
V304 6AH6
V305 6AH6
V306 6AH6
V307 6BC5
L301 3.0μH
TO PIN 7 V101
W306
W305
425MC
125/425MC
125MC
100MC
S301
+250(X)
+250(Y)
+160(X)
+160(Y)
-105
SCHEMATIC DIAGRAM
MODEL 760
(POWER & HARMONIC CIRCUITS)
1 UNLESS OTHERWISE NOTED RESISTOR VALUES ARE IN OHMS, 1/2 W, 10%. CAPACITOR VALUES ARE IN MMF, 10%
2 K=1000 M=1,000,000
3 PANEL CONTROL
4 SCREWDRIVER ADJ
T1
240V
RED/YEL
125V WH/RD
240V RED
6.3V, 1.1A SL/WH SL/WH
12.6V BL BRN
3.7A BL
12.6V GRN
3.7A YEL GRN
WH/BLK
F1 3AS8
S1
J1 P1
W1
B1
V1
V2
TERMINALS ON POWER UNIT
V301 THROUGH V307
CR1 CR2 CR3 CR4 CR5 CR6 CR7
F2 05A,SB
E1 OB2
V1 6080
V2 12AT7

Model 760 Standard Frequency Meter

R.F. & Meter Circuits (Ref. D-7301)

Symbol	Part No.	Description		
		Capacitors		
C101	H-6619-4	Fixed, ceramic;	10 K mmf,	GMV.
C102	H-7354-3	Variable, air;	7-104 "	
C103	H-6643	" mica;	1-12 mmf.	
C104	H-6647	Fixed, ceramic;	1 K " ,	GMV.
C105	H-5531	" "	1 K "	± 20%.
C106	H-6683-1	" "	22 "	± 10%.
C107	H-6619-4	" "	10 K "	GMV.
C108	H-6619-4	" "	10 K "	"
C109	H-6619-4	" "	10 K "	"
C110	H-6671-1	" sil. mica;	5 "	± 10%.
C111	H-6619-4	" ceramic;	10 K "	GMV.
C112	H-6671-1	" sil. mica;	5 "	± 10%.
C113	H-6619-4	" ceramic;	10 K "	GMV.
C114	H-6671-2	" sil. mica;	10 "	± 10%.
C115	H-6619-4	" ceramic;	10 K "	GMV.
C116	H-6619-4	" ceramic;	10 K "	GMV.
C117	H-6671-4	" sil. mica;	22 "	± 5%.
C118	H-6619-4	" ceramic;	10 K "	GMV.
C119	H-6619-4	" "	10 K "	"
C120	H-6619-4	" "	10 K "	"
C121	H-6671-3	" sil. mica;	15 "	± 10%.
C122	H-7354-1	Variable, air;	18-600"	
C123	H-6621	" mica;	7-100 "	
C124	H-6671-14	Fixed, sil. mica;	220 "	± 10%.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description				
C125	H-6619-4	Fixed,	ceramic;	10 K	mmf,	GMV.
C126	H-6671-16	"	sil. mica;	470	"	± 10%.
C127	H-6619-4	"	ceramic;	10 K	"	GMV.
C128	H-7354-1	Variable,	air;	18-600	"	
C129	H-6621	"	mica;	7-100	"	
C130	H-6671-14	Fixed,	sil. mica;	220	"	± 10%.
C131						
C132						
C133	H-6619-4	"	ceramic;	10 K	"	GMV.
C134	H-6671-11	"	sil. mica;	100	"	± 5%.
C135						
C136	H-6671-2	"	sil. mica;	10	"	± 10%.
C137	H-6647	"	ceramic;	1 K	"	GMV.
C138	H-6647	"	ceramic;	1 K	"	GMV.
C139						
C140	H-6619-4	"	ceramic;	10 K	"	GMV.
C141	H-6671-7	"	sil. mica;	47	"	± 5%.
C142	H-6671-2	"	" "	10	"	10%.
C143	H-6671-12	"	" "	150	"	10%.
C144	H-7354	Variable,	air;	18-600		
C145	H-6621	"	mica;	7-100	"	
C146	H-6671-15	Fixed,	sil. mica;	250	"	±5%.
C147	H-6619-4	"	ceramic;	10 K	"	GMV.
C148	H-6647	"	"	1 K	"	"
C149	H-6619-4	"	"	10 K	"	"
C150	H-6671-4	"	sil. mica;	22	"	±5%.
C151	H-6619-4	"	ceramic;	10 K	"	GMV.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
C152	H-6647	Fixed, ceramic; 1 K mmf, GMV.
C153	H-6647	" " 1 K " "
C154	H-6671-9	" sil. mica; 68 " ±10%.
C155	H-7354-1	Variable, air; 18-600 "
C156	H-6621	" mica; 7-100 "
C157	H-6671-13	Fixed, sil. mica; 200 " ±5%.
C158	H-6647	" ceramic; 1 K " GMV.
C159	H-5589	" paper; .1 mf ±20%, 400 V.
C160	H-6671-16	" sil. mica; 470 mmf ±10%.
C161		
C162	H-5310	" electro; 10-10 mf, 450 V.
C163	H-6619-4	" ceramic; 10 K mmf, GMV.
C164	H-7354-1	Variable, air; 18-600 "
C165	H-6621	" mica; 7-100 "
C166	H-6671-15	Fixed, sil. mica; 250 " ± 5%.
C167	H-6619-4	" ceramic; 10 K " GMV.
C168	H-6619-4	" " 10 K " "
C169	H-5589	" paper; .1 mf, ±20%, 400 V.
C170	H-5589	" " .1 mf, ±20%, 400 V.
C171	H-6619-4	" ceramic; 10 K mmf, GMV.

CR101	Diode; IN34A.
CR102	" IN34A.
CR103	" IN34A.
CR104	" IN34A.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
J101	P/O H-7117-6	Connector, Type UG-909/U.
L101	H-7371	Coil, RF; Single layer wdg. with adj. iron core.
L102	H-7058	" " " " " " " " "
L103	H-7024	" " Single pi wdg. with adj. iron core.
L104		" " Wire loop.
L105	H-5537	" " 1.1 microhenries.
L106	H-5537	" " 1.1 "
M101	H-7106	Meter, dc; 200 microamperes.
M102	H-7106	" " 200 "
M103	H-7106	" " 200 "
M104	H-7106	" " 200 "

Resistors

R101	H-3728-471	Fixed, comp;	470	ohms ± 10%	1/2 W.
R102	H-3728-154	" "	150 K	" 10%	1/2 W.
R103	H-3727-363	" "	36 K	" 5%	
R104	H-6680-4	Variable "	100 K	"	
R105	H-3727-510	Fixed, "	51	" 5%	
R106	H-3728-391	Fixed, comp;	390	" 10%	1/2 W.
R107	H-3728-104	" "	100 K	" 10%	1/2 W.
R108	H-3728-102	" "	1 K	" 10%	1/2 W.
R109	H-3727-363	" "	36 K	" 5%	1/2 W.
R110	H-6680-3	Variable "	25 K	"	
R111	H-3728-222	Fixed "	2.2 K	" 10%	1/2 W.
R112	H-3728-154	" "	150 K	" 10%	1/2 W.
R113	H-3728-331	" "	330	" 10%	1/2 W.
R114	H-3728-392	" "	3.9 K	" 10%	1/2 W.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
R115	H-3727-244	Fixed, comp; 240 K ohms ± 5%, 1/2 W.
R116	H-3728-102	" " 1 K " 10%, 1/2 W.
R117	H-3728-104	" " 100 K " 10%, 1/2 W.
R118	H-3728-561	" " 560 " 10%, 1/2 W.
R119	H-3728-680	" " 68 " 10%, 1/2 W.
R120	H-3728-102	" " 1 K " 10%, 1/2 W.
R121	H-3728-472	" " 4.7 " 10%, 1/2 W.
R122		
R123	H-3728-104	" " 100 K " 10%, 1/2 W.
R124	H-3728-224	" " 220 K " 10%, 1/2 W.
R125	H-3728-151	" " 150 " 10%, 1/2 W.
R126	H-3728-473	" " 47 K " 10%, 1/2 W.
R127	H-3728-151	" " 150 " 10%, 1/2 W.
R128	H-3728-153	" " 15 K " 10%, 1/2 W.
R129	H-3728-151	" " 150 " 10%, 1/2 W.
R130	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R131	H-3728-472	" " 4.7 K " 10%, 1/2 W.
R132	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R133	H-3728-472	" " 4.7 K " 10%, 1/2 W.
R134	H-3728-~~102~~ 471	" " ~~1 K~~ 470 " 10%, 1/2 W.
R135	H-3728-102	" " 1 K " 10%, 1/2 W.
R136	H-3728-471	" " 470 " 10%, 1/2 W.
R137	H-3728-474	" " 470 K " 10%, 1/2 W.
R138	H-3728-102	" " 1 K " 10%, 1/2 W.
R139	H-3728-333	" " 33 K " 10%, 1/2 W.
R140	H-3728-561	" " 560 " 10%, 1/2 W.
R141	H-3728-103	" " 10 K " 10%, 1/2 W.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description			
R142	H-3728-683	Fixed, comp;	68 K	ohms	± 10%, 1/2 W.
R143					
R144	H-3728-392	" "	3.9 K	"	10%, 1/2 W.
R145	H-3728-102	" "	1 K	"	10%, 1/2 W.
R146	H-3728-224	" "	220 K	"	10%, 1/2 W.
R147	H-3727-242	" "	2.4 K	"	5%, 1/2 W.
R148	H-3728-104	" "	100 K	"	10%, 1/2 W.
R149					
R150	H-3728-105	" "	1 M	"	10%, 1/2 W.
R151	H-3731-223	" "	22 K	"	10%, 1 W.
R152	H-3731-153	" "	15 K	"	10%, 1 W.
R153	H-3728-334	" "	330 K	"	10%, 1/2 W.
R154	H-3728-753	" "	75 K	"	10%, 1/2 W.
R155	H-3728-561	" "	560	"	10%, 1/2 W.
R156	H-6679-1	Variable, comp;	10 K	"	
R157					
R158	H-3728-472	Fixed, comp;	4.7 K	"	10%, 1/2 W.
R159	H-3728-102	" "	1 K	"	10%, 1/2 W.
R160	H-6680-1	Variable, comp;	2.5 K	"	
R161	H-3728-222	Fixed, comp;	2.2 K	"	10%, 1/2 W.
R162	H-3728-472	" "	4.7 K	"	10%, 1/2 W.
R163	H-3728-471	" "	470	"	10%, 1/2 W.
R164					
R165	H-3728-102	" "	1 K	"	10%, 1/2 W.
R166	H-6680-2	Variable, comp;	10 K	"	
R167	H-3728-153	Fixed, comp;	15 K	"	10%, 1/2 W.
R168	H-3728-103	" "	10 K	"	10%, 1/2 W.

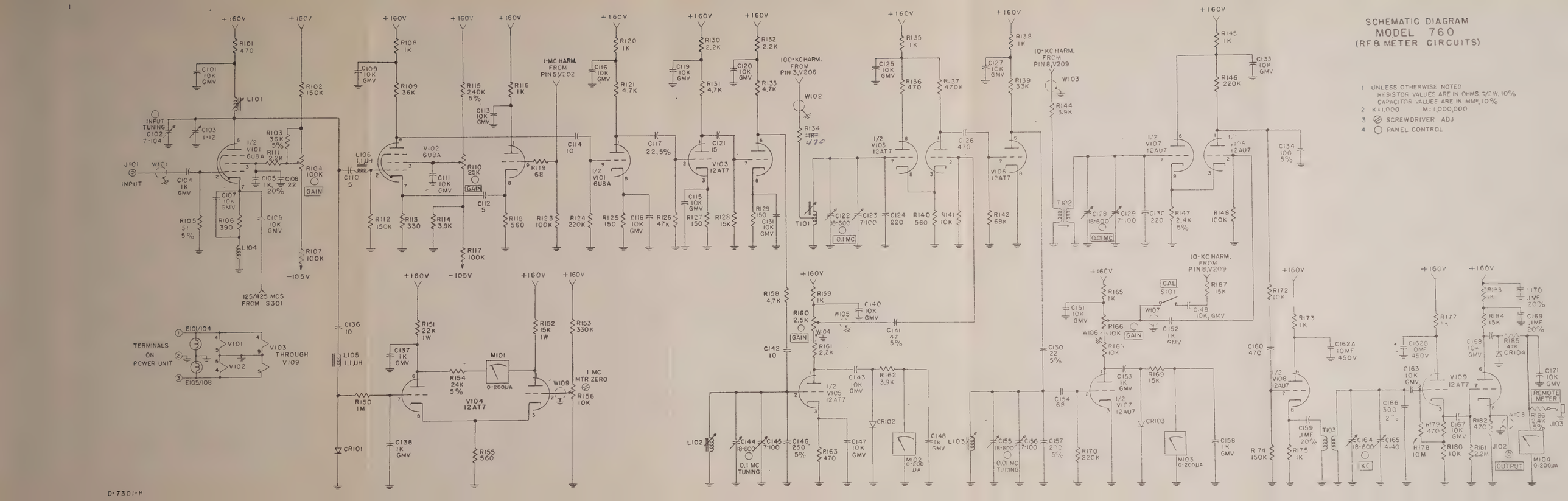
Model 760 Standard Frequency Meter

Symbol	Part No.	Description
R169	H-3728-153	Fixed, comp; 15 K ohms ± 10%, 1/2 W.
R170	H-3728-224	" " 220 K " 10%, 1/2 W.
R171		
R172	H-3728-103	" " 10 K " 10%, 1/2 W.
R173	H-3728-102	" " 1 K " 10%, 1/2 W.
R174	H-3728-154	" " 150 K " 10%, 1/2 W.
R175	H-3728-102	" " 1 K " 10%, 1/2 W.
R176		
R177	H-3728-102	" " 1 K " 10%, 1/2 W.
R178	H-3728-106	" " 10 M " 10%, 1/2 W.
R179	H-3728-471	" " 470 " 10%, 1/2 W.
R180	H-3728-103	" " 10 K " 10%, 1/2 W.
R181	H-3728-225	" " 2.2 M " 10%, 1/2 W.
R182	H-3728-470	" " 470 " 10%, 1/2 W.
R183	H-3728-102	" " 1 K " 10%, 1/2 W.
R184	H-3728-153	" " 15 K " 10%, 1/2 W.
R185	H-3728-473	" " 47 K " 10%, 1/2 W.

S101	H-6681-1	Switch, push-button
T101	H-7060	Coil, RF; single layer wdg. with tap and adj. iron core.
T102	H-7373	Transformer; RF; two pi windings with adj. iron core.
T103	H-7383	Transformer, RF; two pi windings; air core.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
V101		Tube, electron; type 6U8A.
V102		6U8A.
V103		12AT7.
V104		12AT7.
V105		12AT7.
V106		12AT7.
V107		12AU7.
V108		12AU7.
V109		12AT7.
W101	H-7117-6	Cable, RF; with input connector J101.
W102	H-7399-1	" "
W103	H-7399-2	" "
W104	H-7399-5	" "
W105	H-7399-5	" "
W106	H-7399-6	" "
W107	H-7399-6	" "
W108	H-6755-10	Cable, AF


SCHEMATIC DIAGRAM
MODEL 760
(RF & METER CIRCUITS)
1 UNLESS OTHERWISE NOTED
RESISTOR VALUES ARE IN OHMS, 1/2W, 10%
CAPACITOR VALUES ARE IN MMF, 10%
2 K=1,000 M=1,000,000
3 SCREWDRIVER ADJ
4 PANEL CONTROL
+160V
-105V
INPUT
INPUT TUNING
J101
W101
L101
L102
L103
L104
L105
L106
V101 6U8A
V102 6U8A
V103 12AT7
V104 12AT7
V105 12AT7
V106 12AT7
V107 12AU7
V108 12AU7
V109 12AT7
V101 THROUGH V109
TERMINALS ON POWER UNIT
E101/104
E105/108
125/425 MCS FROM S301
1-MC HARM. FROM PIN 5, V202
100-KC HARM. FROM PIN 3, V206
10-KC HARM. FROM PIN 8, V209
W102
W103
W104
W105
W106
W107
W109
GAIN
0.1 MC
0.01 MC
CAL S101
M101 0-200 UA
M102 0-200 UA
M103 0-200 UA
M104 0-200 UA
1 MC MTR ZERO
0.01 MC TUNING
KC
OUTPUT
REMOTE METER
CR101
CR102
CR103
CR104
T101
T102
T103
R101 470
R102 150K
R103 36K 5%
R104 100K
R105 51 5%
R106 390
R107 100K
R108 1K
R109 36K
R110 25K
R111 2.2K
R112 150K
R113 330
R114 3.9K
R115 240K 5%
R116 1K
R117 100K
R118 560
R119 68
R120 1K
R121 4.7K
R123 100K
R124 220K
R125 150
R126 47K
R127 150
R128 15K
R129 150
R130 2.2K
R131 4.7K
R132 2.2K
R133 4.7K
R134 470
R135 1K
R136 470
R137 470K
R138 1K
R139 33K
R140 560
R141 10K
R142 68K
R143 1K
R144 3.9K
R145 1K
R146 220K
R147 2.4K 5%
R148 100K
R150 1M
R151 22K 1W
R152 15K 1W
R153 330K
R154 24K 5%
R155 560
R156 10K
R158 4.7K
R159 1K
R160 2.5K
R161 2.2K
R162 3.9K
R163 470
R165 1K
R166 10K
R167 15K
R169 15K
R170 220K
R172 10K
R173 1K
R174 150K
R175 1K
R177 1K
R178 10M
R179 470
R180 10K
R181 2.2M
R182 470
R184 15K
R185 47K
R186 2.4K 5%
C101 10K GMV
C102 7-104
C103 1-12
C104 1K GMV
C105 1K 20%
C106 22
C107 10K GMV
C108 10K GMV
C109 10K GMV
C110 5
C111 10K GMV
C112 5
C113 10K GMV
C114 10
C115 10K GMV
C116 10K GMV
C117 22.5%
C118 10K GMV
C119 10K GMV
C120 10K GMV
C121 15
C122 18-600
C123 7-100
C124 220
C125 10K GMV
C126 470
C127 10K GMV
C128 18-600
C129 7-100
C130 220
C131 10K GMV
C133 10K GMV
C134 5%
C135 1K
C136 10
C137 1K GMV
C138 1K GMV
C139 10K GMV
C140 10K GMV
C141 47 5%
C142 10
C143 10K GMV
C144 18-600
C145 7-100
C146 250 5%
C147 10K GMV
C148 1K GMV
C149 10K GMV
C150 22 5%
C151 10K GMV
C152 1K GMV
C153 1K GMV
C154 68
C155 18-600
C156 7-100
C157 5%
C158 1K GMV
C159 .1MF 20%
C160 470
C162A 10MF 450V
C162B 0MF 450V
C163 10K GMV
C164 18-600
C165 4-40
C166 300
C167 10K GMV
C168 10K GMV
C169 .1MF 20%
C170 .1MF 20%
C171 10K GMV

D-7301-H

Model 760 Standard Frequency Meter

Crystal Oscillator & Divider Circuits (Ref. D-7302)

Symbol	Part No.	Description
		Capacitors
C201	H-5589	Fixed, paper; .1 mf ± 20%, 400 V.
C202	H-6647	" ceramic; 1 K mmf, GMV.
C203	H-6671-7	" sil. mica; 47 " ± 5%.
C204	H-6619-4	" ceramic; 10 K " GMV.
C205	H-6671-4	" sil. mica; 22 " ± 5%.
C206	H-6647	" ceramic; 1 K " GMV.
C207	H-6619-4	" " 10 K " "
C208	H-6392	Variable, mica; 2-25 "
C209	H-7354-2	" air; 7-169 "
C210	H-6647	Fixed, ceramic; 1 K " GMV.
C211	H-6671-4	" sil. mica; 22 " ± 5%.
C212	H-6619-4	" ceramic; 10 K " GMV.
C213	H-6671-1	" " " 5 " ± 10%.
C214	H-6671-4	" " " 22 " ± 5%.
C215	H-6671-4	" " " 22 " ± 5%.
C216	H-6619-4	" ceramic; 10 K " GMV.
C217	H-6671-4	" sil. mica; 22 " ± 5%.
C218	H-6671-11	" " " 100 " 5%.
C219	H-6671-7	" " " 47 " 5%.
C220	H-6671-5	" " " 27 " 5%.
C221	H-6671-10	" " " 82 " 5%.
C222	H-6619-4	" ceramic; 10 K " GMV.
C223	H-6671-7	" sil. mica; 47 " ± 5%.
C224	H-6619-4	" ceramic; 10 K " GMV.
C225	H-6671-11	" sil. mica; 100 " ± 5%.
C226		
C227		

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
C228	H-6671-12	Fixed, sil. mica; 150 mmf, ± 10%.
C229	H-6671-6	" " " 33 " 5%.
C230	H-6671-13	" " " 200 " 5%.
C231	H-6671-2	" " " 10 " 10%.
C232	H-6619-4	" ceramic; 10 K " GMV.
C233	H-6671-9	" sil. mica; 68 " ± 10%.
C234	H-6671-11	" " " 100 " 5%.
C235	H-6682-4	" " " 1 K " 5%.
C236	H-6619-4	" ceramic 10 K " GMV.
C237	H-6671-7	" sil. mica; 47 " ± 5%.
C238	H-6671-15	" " " 250 " ± 5%.
C239		
C240		
C241	H-6671-7	" " " 47 " 5%.
C242	H-6619-4	" ceramic; 10 K " GMV.
C243	H-5589	" paper; .1 mf ± 20%, 400 V.
C244	H-4469	Variable, air; 3-14 mmf
C245	H-6334	Fixed, ceramic, TC 15 ± 10%, N750.
C246	H-6671-16	" " " 470 " 10%.
C247	H-6647	" ceramic; 1 K " GMV.
C248	H-6619-4	" " 10 K " "
C249	H-6671-4	" sil. mica; 22 " ± 5%.
C250	H-6619-4	" ceramic; 10 K " GMV.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
CR201	H-6489	Rectifier; silicon
CR202	H-6489	" "
CR203		Diode, IN34A.
CR204		" IN34A.
E201	H-5582	Lamp; 6 V.
J201	H-5506	Jack, pin
J202	"	" "
J203	"	" "
J204	"	" "
J205	"	" "
J206	"	" "
L201	H-7409	Coil, RF; Single layer wdg. with adj. iron core.

Resistors

R201	H-3728-221	Fixed, comp;	220 ohms ±	10%, 1/2 W.
R202	H-3727-154	" "	150 K "	5%, 1/2 W.
R203	H-3731-223	" "	22 K "	10%, 1 W.
R204	H-3734-332	" "	3.3 K "	10%, 2 W.
R205	H-3727-204	" "	200 K "	5%, 1/2 W.
R206				
R207	H-3728-684	" "	680 K "	10%, 1/2 W.
R208	H-3728-103	" "	10 K "	10%, 1/2.W.
R209	H-3728-681	" "	680 "	10%, 1/2.W.
R210	H-3728-104	" "	100 K "	10%, 1/2 W.
R211				
R212				

Model 760 Standard Frequency Meter

Symbol	Part No.	Description		
R213	H-3728-102	Fixed, comp;	1 K ohms	± 10%, 1/2 W.
R214	H-3731-223	" "	22 K "	10%, 1 W.
R215	H-3728-473	" "	47 K "	10%, 1/2 W.
R216	H-6679-3	Variable, comp;	250 K "	
R217	H-3727-244	Fixed, comp;	240 K "	5%, 1/2 W.
R218	H-3728-473	" "	47 K "	10%, 1/2 W.
R219	H-3731-153	" "	15 K "	10%, 1 W.
R220	H-3727-154	" "	150 K "	5%, 1/2 W.
R221	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R222	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R223	H-3733-512	" "	5.1 K "	5%, 2 W.
R224	H-3728-154	" "	150 K "	10%, 1/2 W.
R225	H-3728-102	" "	1 K "	10%, 1/2 W.
R226				
R227				
R228	H-3728-473	" "	47 K "	10%, 1/2 W.
R229	H-6679-3	Variable, comp;	250 K "	
R230	H-3727-244	Fixed, comp;	240 K "	5%, 1/2 W.
R231	H-3728-473	" "	47 K "	10%, 1/2 W.
R232	H-3728-153	" "	15 K "	10%, 1 W.
R233	H-3727-304	" "	300 K "	5%, 1/2 W.
R234	H-3728-102	" "	1 K "	10%, 1/2 W.
R235	H-3733-512	" "	5.1 K "	5%, 2 W.
R236	H-3728-474	" "	470 K "	10%, 1/2 W.
R237	H-3728-332	" "	3.3 K "	10%, 1/2 W.
R238	H-3728-222	" "	2.2 K "	10%, 1/2 W.
R239				

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
R240		
R241	H-3728-153	Fixed, comp; 15 K ohms ± 10%, 1/2 W.
R242	H-3728-332	" " 3.3 K " 10%, 1/2 W.
R243	H-3728-332	" " 3.3 K " 10%, 1/2 W.
R244	H-3728-102	" " 1 K " 10%, 1/2 W.
R245	H-3728-473	" " 47 K " 10%, 1/2 W.
R246	H-6679-3	Variable, comp; 250 K "
R247	H-3727-244	Fixed, comp; 240 K " 5%, 1/2 W.
R248	H-3728-473	" " 47 K " 10%, 1/2 W.
R249	H-3728-153	" " 15 K " 10%, 1 W.
R250	H-3727-474	" " 470 K " 5%, 1/2 W.
R251	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R252	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R253	H-3733-512	" " 5.1 K " 5%, 2 W.
R254	H-3728-154	" " 150 K " 10%, 1/2 W.
R255	H-3728-102	" " 1 K " 10%, 1/2 W.
R256		
R257		
R258	H-3728-473	" " 47 K " 10%, 1/2 W.
R259	H-6679-3	Variable, comp; 250 K "
R260	H-3727-244	Fixed, comp. 240 K " 5%, 1/2 W.
R261	H-3728-473	" " 47 K " 10%, 1/2 W.
R262	H-3731-153	" " 15 K " 10%, 1 W.
R263	H-3727-474	" " 470 K " 5%, 1/2 W.
R264	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R265	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R266	H-3733-512	" " 5.1 K " 5%, 2 W.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
R267	H-3728-154	Fixed, comp; 150 K ohms ± 10%, 1/2 W.
R268	H-3728-332	" " 3.3 K " 10%, 1/2 W.
R269		
R270		
R271	H-3728-102	" " 1 K " 10%, 1/2 W.
R272	H-3728-562	" " 5.6 K " 10%, 1/2 W.
R273	H-3731-104	" " 100 K " 10%, 1 W.
R274	H-3728-104	" " 100 K " 10%, 1/2 W.
R275	H-3728-473	" " 47 K " 10%, 1/2 W.
R276	H-3728-105	" " 1 M " 10%, 1/2 W.
R277	H-3728-102	" " 1 K " 10%, 1/2 W.
R278	H-3728-103	" " 10 K " 10%, 1/2 W.
R279	H-3728-102	" " 1 K " 10%, 1/2 W.
R280	H-3728-222	" " 2.2 K " 10%, 1/2 W.
R281	H-3728-103	" " 10 K " 10%, 1/2 W.
R282	H-3728-102	" " 1 K " 10%, 1/2 W.

Model 760 Standard Frequency Meter

Symbol	Part No.	Description
V201		Tube, electron; Type 6AH6.
V202		6AH6.
V203		12AT7.
V204		12AT7.
V205		12AT7.
V206		12AT7.
V207		12AT7.
V208		12AT7.
V209		12AT7.
V210		12AU7.
V211		12AU7.
Y201		Crystal; 1 MC.

MEASUREMENTS

BOX 180, BOONTON
NEW JERSEY

MP MASTER
MA25086